

Amended Claims With Mark-ups to Show Changes Made

1. (Amended) A method for a gain control of a fiberoptic repeating system comprising:
mixing from a master repeater a modulated MODEM signal of a predetermined level with a RF signal and transmitting the mixed signal through an optical cable;
detecting at a slave repeater a modulated MODEM signal level from the mixed signal transmitted by the master repeater;
comparing, at the slave repeater, the detected modulated MODEM signal level with a reference level and obtaining a difference between the levels; and
[controlling] adjusting a gain of an amplifier for the RF signal in the slave repeater [based upon said] by using the obtained difference to calculate the gain adjustment.

4. (Amended) A method of claim 1, wherein controlling the gain of the amplifier [to increase] comprises increasing a level of the RF signal by the obtained difference.

5. (Amended) A method for a fiberoptic repeating system comprising:
transmitting from a base station a first RF signal;
amplifying the first RF signal by a constant level through an amplifier of a master repeater;
mixing a first modulated MODEM signal of a predetermined level with the first amplified RF signal and transmitting the mixed signal through an optical cable to a slave repeater;

receiving and separating the mixed signal into a second modulated MODEM signal and a second RF signal, and detecting a modulated MODEM signal level from the second modulated MODEM signal;

comparing, at the slave repeater, the detected modulated MODEM signal level with a reference level and obtaining a difference between the levels;

controlling a gain of an amplifier for the RF signal in the slave repeater based upon said obtained difference; and

amplifying the second RF signal according to the controlled gain and transmitting the second amplified RF signal to terminal.

8. (Amended) A method of claim 5, wherein controlling the gain of the amplifier for the RF signal in the slave repeater [to increase] comprises increasing a level of the second RF signal by the obtained difference.

Clean Set of Amended Claims

Subj (Amended) A method for a gain control of a fiberoptic repeating system comprising:
mixing from a master repeater a modulated MODEM signal of a predetermined level
with a RF signal and transmitting the mixed signal through an optical cable;
detecting at a slave repeater a modulated MODEM signal level from the mixed signal
transmitted by the master repeater;
comparing, at the slave repeater, the detected modulated MODEM signal level with a
reference level and obtaining a difference between the levels; and
adjusting a gain of an amplifier for the RF signal in the slave repeater by using the
obtained difference to calculate the gain adjustment.

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4. (Amended) A method of claim 1, wherein controlling the gain of the amplifier
comprises increasing a level of the RF signal by the obtained difference.

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5. (Amended) A method for a fiberoptic repeating system comprising:
transmitting from a base station a first RF signal;
amplifying the first RF signal by a constant level through an amplifier of a master
repeater;
mixing a first modulated MODEM signal of a predetermined level with the first amplified
RF signal and transmitting the mixed signal through an optical cable to a slave repeater;

receiving and separating the mixed signal into a second modulated MODEM signal and a second RF signal, and detecting a modulated MODEM signal level from the second modulated MODEM signal;

comparing, at the slave repeater, the detected modulated MODEM signal level with a reference level and obtaining a difference between the levels;

controlling a gain of an amplifier for the RF signal in the slave repeater based upon said obtained difference; and

amplifying the second RF signal according to the controlled gain and transmitting the second amplified RF signal to terminal.

8. (Amended) A method of claim 5, wherein controlling the gain of the amplifier for the RF signal in the slave repeater comprises increasing a level of the second RF signal by the obtained difference.

C. Please add new claims 9-11 as follows:

9. (New) A method of controlling gain in a fiberoptic communication system, comprising:

combining a monitoring signal of a predetermined level with an RF signal;

transmitting the combined monitoring and RF signals to a slave repeater;

separating the transmitted monitoring signal from the transmitted RF signal at the slave repeater;

comparing, at the slave repeater, a level of the transmitted monitoring signal with the predetermined level; and

adjusting a gain applied to the transmitted RF signal by using the comparison to calculate the gain adjustment.

10. (New) The method of claim 9, wherein the monitoring signal of a predetermined level comprises a modulated MODEM signal.

11. (New) The method of claim 9, wherein the transmitting step comprises:

converting the combined monitoring and RF signals into an optical signal; and

transmitting the optical signal to the slave repeater via an optical fiber.